## Approved For Release 200104174-GIA-RDP78B05171A000800060079-0

07 JUL 1969

WORANDUM FOR: Executive Director, NPIC	
BJECT: NATO Symposium on Image Evaluation	
1. In support of our request for	25X
2. Topics for discussion at the 18-22 August meeting parallel everal highly active NED efforts:	
discuss "Sensor Design Requirements." Here is an area too long overlooked by the exploiters of recommaissance information. Fortunately, the tide has begun to turn, and the Symposium affords another opportunity to more fully appreciate an expert's affords on the matter within the user's frame of reference.	
known to DED through his efforts in real time displays. His paper, "Scan and Raster Line Effects upon Usefulness of Telepaper, "Scan and Raster Line Effects upon Usefulness upon	25X
be in line with our Real Time Exploitation Digital Image Restoration, and Line Scan Research programs.  C. The work of  on "Evaluation of Night Vision Systems on "Dynamic Visual Acuity"  and that of on "Dynamic Visual Acuity"  address the same problems as the NPIC Visual Process Research program, namely, visual capabilities in the context of photo- interpretation.	25X
d. The DED Imagery Interpretation Process Research program (specifically research on hunting, reasoning, and PI target knowledge), and our Real Time Exploitation activities are in line with "Towards a Theory of Visual Search" by	25X 25X

Declass Review by NIMA/DOD Approved For Release 2003/04/17: CIA-RDP78B05171A

25X1

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SUBJECT: NATO Symposium on Image Evaluation

	("Eye Movements in Visual Search"),	25X1
25X1	("The Effect of Target	
25X1	Movement on Visual Search"), ("A Gradient Theory of Visual Detection"),	<b>25X</b> 1
25X1	("Image Evaluation for the Prediction of Performance of a Human Observer") will also address the same general areas.	
25X1	e. Research by and his students at	
25X1	Myopia" has been followed closely by DED and several of our	051/4
0EV4	consultants and contractors.	25X1
25X1 25X1	are collaborating under contract to NPIC to determine and eventually specify microscope design criteria that will take	
25X1	into account the human visual capabilities and limitations.  work has proven to be an invaluable pre- liminary step in this direction.	
	f. Similarly, our Imagery Analysis and Manipulation program (Image Processing Study, Photo-Optical Systems Evaluation and Image Restoration), Interpretation Instruments and Techniques program (Display System R&D and Specialized Film Viewers), Imagory Interpretation Process Research (Color Evaluation and Ground Resolution Studies), Mensuration Techniques and Equipment and Image Quality Determinants activities are directly related	
	to the work of("The Effect of Image Contrast and Resolution on Target Detection and Identification. The Effect of Color Combinations in Reconnaissance	25X1
	Displays') and	25X1
25X1	Vision").	
25X1	("Contributions of Automatic Pattern Recognition to the Study of Human Pattern Perception") has maintained an	25X1
	active, though informal, relationship with DED personnel con-	

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## Approved For Release 2008/04/12: CIA-RDP78B05171A000800060079-0

SUBJECT: NATO Symposium on Image Evaluation

<ol> <li>In view of the releva and contractual R&amp;D programs, to attend the NATO Symposium.</li> </ol>	nce of th	e propose nd that	d agen		ED in-house permitted
Chief,	Technical	Services	and S	upport	Group,

25X1

25X1

## Distribution:

Orig & I - Addressee

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